

"Made available under NASA sponsorship
in the interest of early and wide dis-
semination of Earth Resources Survey
Program information and without liability
for any use made thereof."

E7.2 - 1 0.2 7.6
CR - 129238

AN EXPERIMENT IN CULTURAL INTERPRETATION AND MAP REVISION FROM ERTS-A
DATA

William J. Kosco
Topographic Division
U.S. Geological Survey
1340 Old Chain Bridge Rd.
McLean, Virginia 22101

NTIS: HC \$3.00

1 November 1972

Type I Progress Report for Period 1 September 1972 - 31 October 1972

Prepared for:

Goddard Space Flight Center
Greenbelt, Maryland 20771

(E72-10276) - AN EXPERIMENT IN CULTURAL
INTERPRETATION AND MAP REVISION FROM ERTS-A
DATA Progress Report, 1 Sep. - 31 Oct.
1972 W.J. Kosco (Geological Survey)
1 Nov. 1972 3 p

N73-12374

Unclas

CSSL 08B G3/13 00276

Publication authorized by the Director, U.S. Geological Survey

Type I Progress Report
ERTS-A

- a. Title: An Experiment In Cultural Interpretation and Map Revision
from ERTS-A Data

ERTS-1 Proposal No. SR 237

- b. GSFC ID No. of P.I. IN 419

- c. Problems

The continued loss of the RBV system and the substitution of MSS bands 6 and 7 from the original Data Request (RBV-3) has presented problems in identifying cultural features other than water bodies.

- d. Accomplishments:

A change in the data requested for this experiment was initiated (see item j) to aid in interpretation of man made cultural features (e.g. Highways, Airfields, and Urban Centers).

One MSS frame (1021-18145 - Band 6) was enlarged and rectified to fit the Pendelton and Walla Walla USGS 1:250,000 ~~scale~~ maps. It appears that changes in the water level of the Columbia River and the recent creation of Lake Umitilla by the construction of the John Day Dam can easily and accurately be delineated on map scales as large as 1:250,000 by either density slicing or purely cartographic means.

With the acquisition of MSS bands 4 and 5 to supplement bands 6 and 7, additional enlargements will be made to revise the above quads. Also negatives of MSS band 5 and 6 and 5 and 7 will be combined to

see if the resulting composite positive will aid in cultural interpretation.

- e. Significant scientific results: N/A
- f. Published articles and reports: N/A
- g. Recommended changes in operations: N/A
- h. Changes in Standing Order Forms: N/A
- i. ERTS Image Descriptor forms: N/A
- j. Changes in Data Request Forms:

A change to the Data Request form was submitted to Goddard Space Flight Center/NDPF on October 18, 1972 requesting that the standing order for data for this experiment be changed and that in the absence of RBV imagery all four bands of MSS imagery be substituted. When the RBV sensors are reactivated, all 3 RBV bands will be requested.

- k. DCP Status: N/A